

1/8

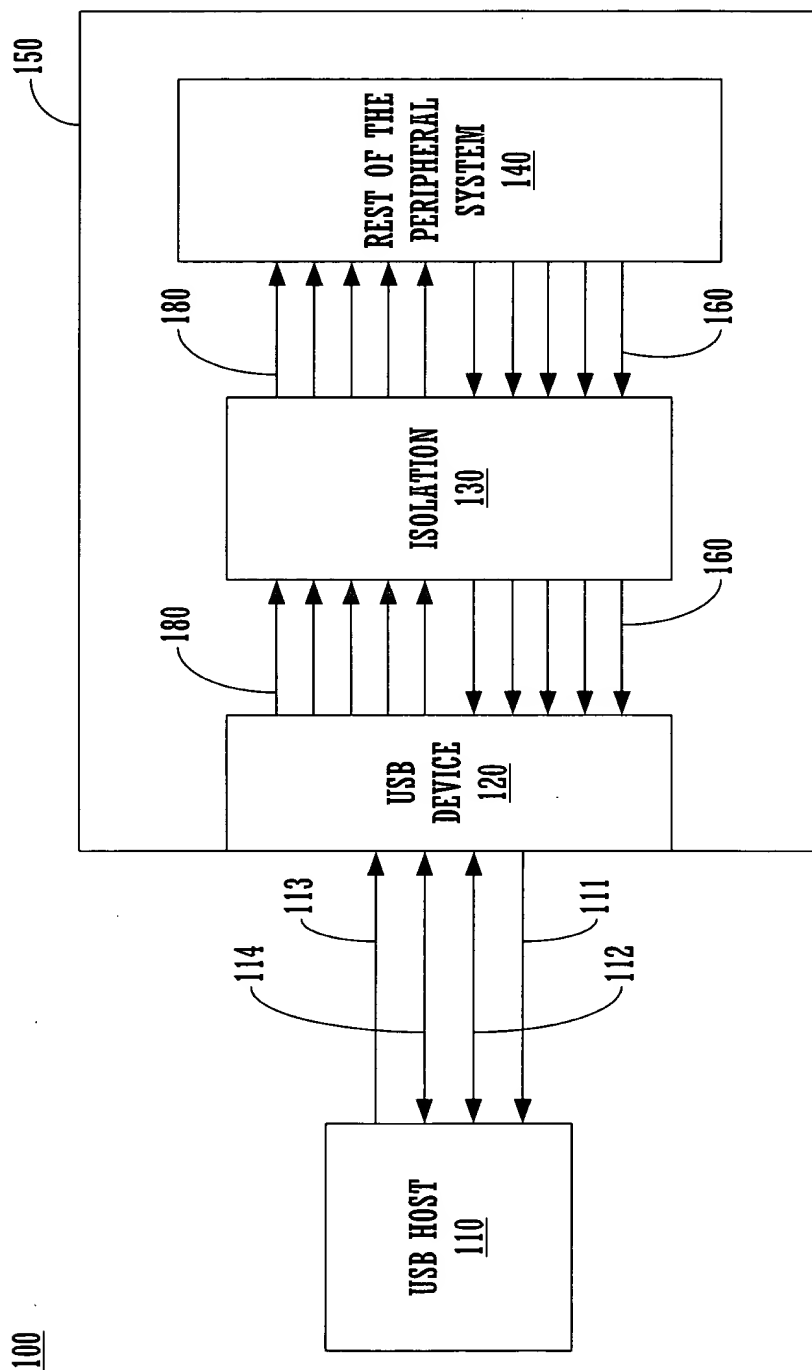


FIGURE 1
Conventional Art



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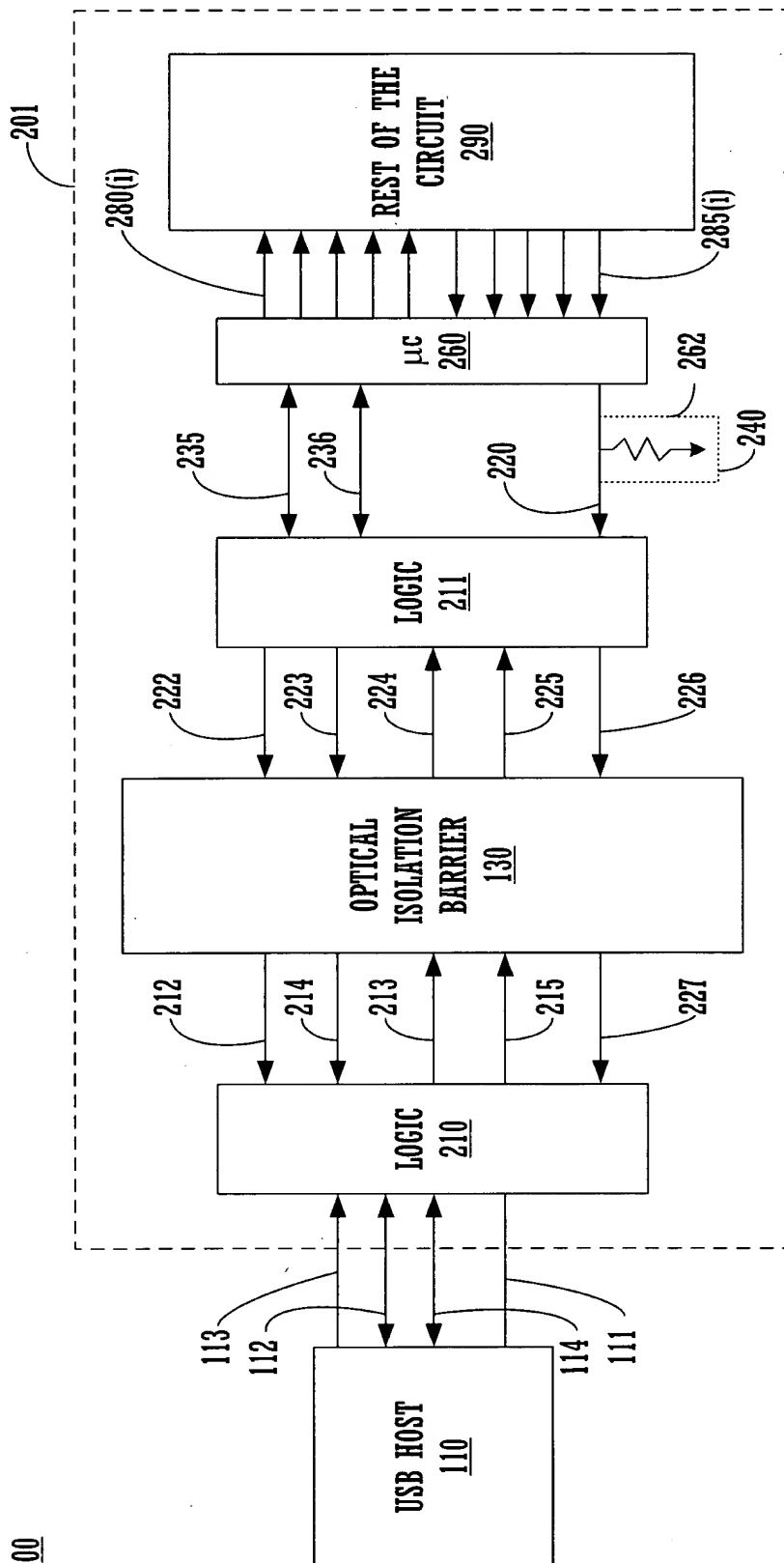


FIGURE 2



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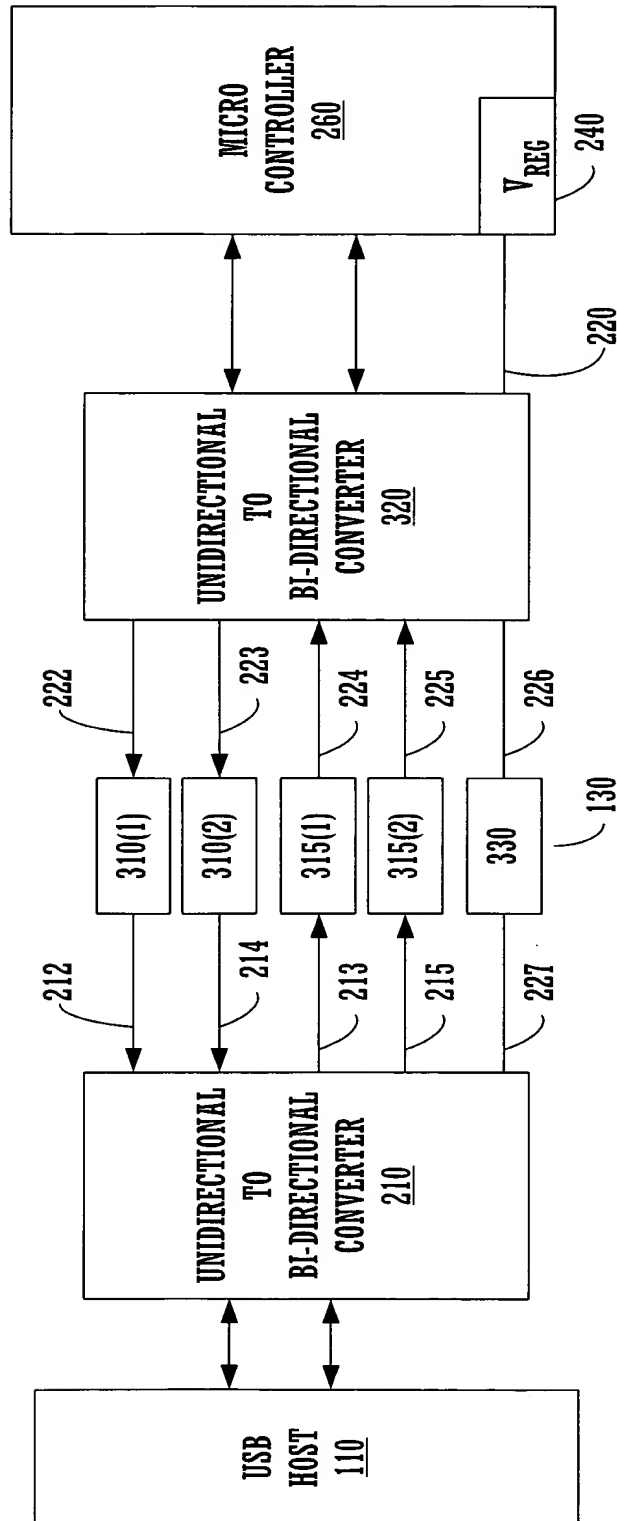


FIGURE 3



TITLE: AN APPARATUS AND METHOD FOR OPTICALLY ISOLATING A USB PERIPHERAL FROM A
USB HOST

INVENTOR(S): Stuart Allman

USSN: 09/935,017 ATTORNEY DOCKET #: CYPR-CD01072

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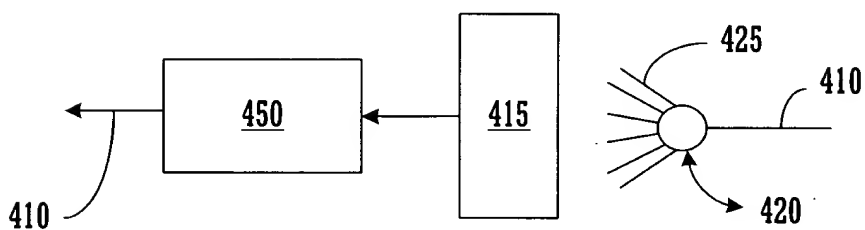


FIGURE 4A



TITLE: AN APPARATUS AND METHOD FOR OPTICALLY ISOLATING A USB PERIPHERAL FROM A
USB HOST

INVENTOR(S): Stuart Allman

USSN: 09/935,017

ATTORNEY DOCKET #: CYPR-CD01072

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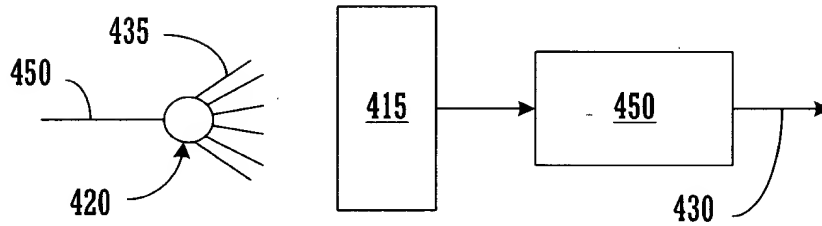
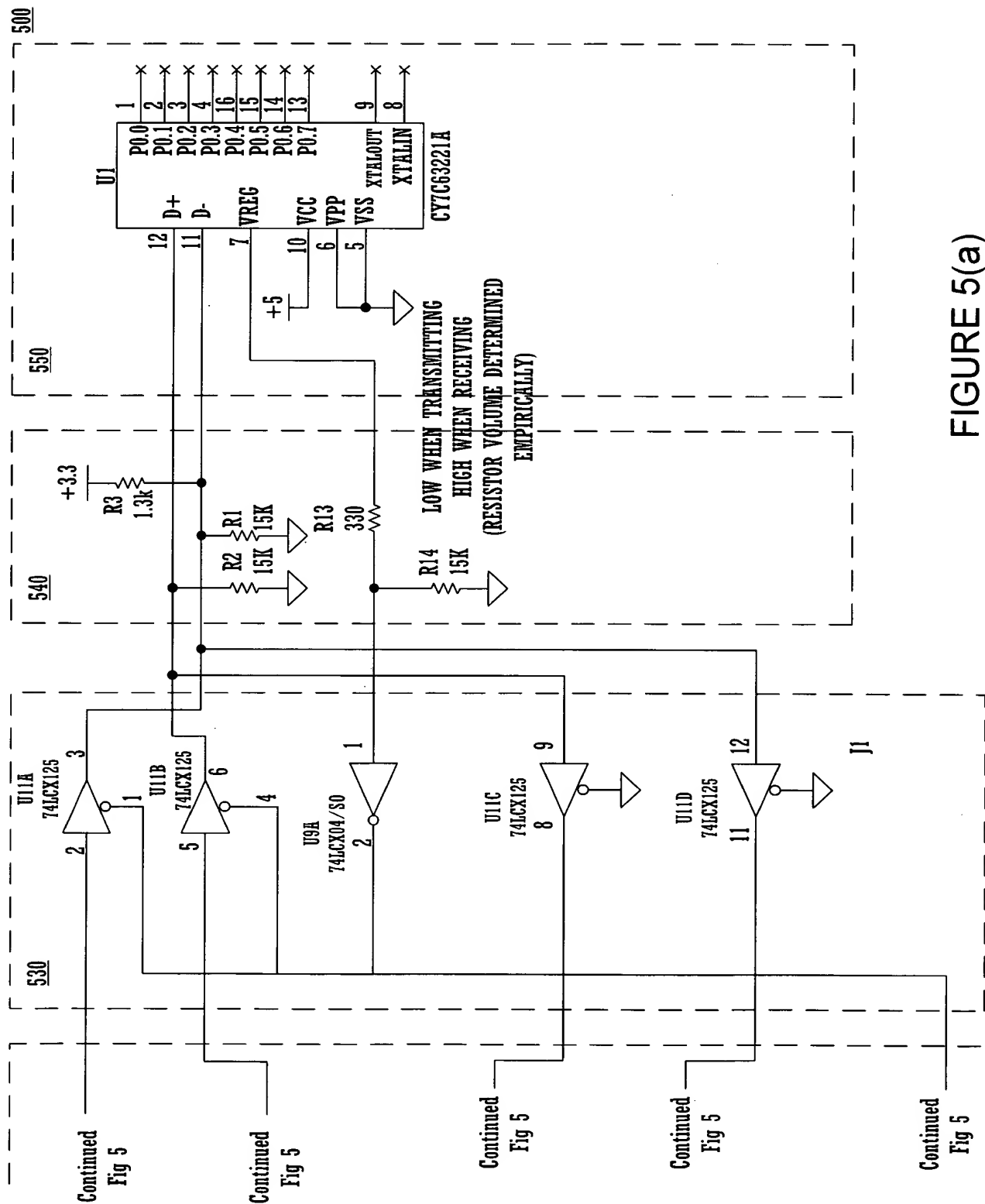
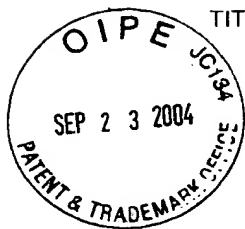


FIGURE 4B





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THE MICROCONTROLLER TRANSLATES BETWEEN INPUT OUTPUT
(I/O) SIGNALS OF THE PERIPHERAL DEVICE LOGIC OF THE
PERIPHERAL DEVICE AND SERIAL BUS SIGNALS WHEREIN THE
SERIAL BUS SIGNALS MAY BE FEWER IN NUMBER THAN THE I/O
SIGNALS

610

THE ISOLATOR ELECTRONICALLY ISOLATING THE BUS SIGNALS TO
GENERATE ISOLATED BUS SIGNALS

620

CIRCUITRY IS USED TO INTERFACE THE ISOLATED BUS SIGNALS
OVER THE SERIAL BUS TO OPTICALLY ISOLATE THE PERIPHERAL
DEVICE LOGIC FROM THE SERIAL BUS

630

FIGURE 6